## Amendment To The Claims

The following listing of claims will replace all prior versions, and listings, of claims in the application.

- 1. (Currently amended) A method for screening a candidate compound for effectiveness in modifying the interaction between a p38 protein and a parkan parkin protein comprising the steps of:
  - a) exposing a sample comprising said p38 protein and parkan parkin protein to said candidate compound; and
- b) measuring a the interaction between said p38 protein to said parken parkin protein and comparing it to a control sample comprising said p38 protein and parken protein without said candidate compound.
- 2. (Canceled)
- 3. (Canceled)
- 4. (Original) The method of Claim 1 wherein said sample further comprises an enzyme substrate.
- 5. (Original) The method of Claim 1, wherein said method is performed in vitro.
- 6. (Canceled)
- 7. (Previously amended) The method of Claim 5, wherein said p38 protein is expressed in yeast.
- 8. (Previously amended) The method of Claim 1, wherein said p38 protein is selected from the group consisting of:
  - a) a polypeptide encoded by the polynucleotide of SEQ ID NO:1,

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- b) a polypeptide comprising the amino acid sequence of SEQ ID NO:2.
- c) a polypeptide encoded by the polynucleotide of SEQ ID NO:4,
- a polypeptide having at least 65% identity to a polypeptide encoded by the polynucleotide of SEQ ID NO:1,
- e) a polypeptide having at least 65% identity to a polypeptide comprising the amino acid sequence of SEQ ID NO:2, and
- f) a polypeptide having at least 65% identity to a polypeptide encoded by the polynucleotide of SEQ ID NO:4.
- 9. (Previously amended) The method of Claim 1, wherein said parkin is selected from the group consisting of:
  - a) a polypeptide encoded by the polynucleotide of SEQ ID NO:7,
  - b) a polypeptide comprising the amino acid sequence of SEQ ID NO:8,
  - c) a polypeptide encoded by the polynucleotide of SEQ ID NO:10.
  - a polypeptide having at least 65% identity to a polypeptide encoded by the polynucleotide of SEQ ID NO:7,
  - e) a polypeptide having at least 65% identity to a polypeptide comprising the amino acid sequence of SEQ ID NO:8.
  - f) a polypeptide having at least 65% identity to a polypeptide encoded by the polynucleotide of SEQ ID NO:10.
- 10. (Withdrawn) A compound identified accord to according to the method of Claim 1.
- 11. (Withdrawn) The compound of Claim 10, wherein said compound is selected from the group consisting of: a polypeptide, a polynucleotide, a lipid, a saccharide, and an antibody.
- 12. (Withdrawn) A pharmaceutical composition comprising an effective amount of the compound of Claim 10 and a pharmaceutically acceptable excipient.
- 13. (Withdrawn) A method of treating a neurodegenerative disease comprising the step of administering the pharmaceutical compound of Claim 12.
- 14. (Withdrawn) The method of Claim 13, wherein said neurodegenerative disease is Parkinson's disease.

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- 15. (Withdrawn) An isolated polypeptide comprising an amino acid sequence selected from the group consisting of:
  - a) a polypeptide comprising an amino acid sequence of SEQ ID NO:2,
  - b) a polypeptide comprising an amino acid sequence comprising at least 5 consecutive amino acid residues of SEQ ID NO:2.
  - a polypeptide comprising an amino acid sequence comprising at least 9 consecutive amino acid residues of SEQ ID NO:2,
  - a polypeptide comprising an amino acid sequence comprising at least 15 consecutive amino acid residues of SEQ ID NO:2.
  - a polypeptide comprising an amino acid sequence that is a derivative of SEQ
    ID NO:2, and
  - f) a polypeptide comprising an amino acid sequence that is a fragment of SEQ ID NO:2.
- 16. (Withdrawn) An isolated polynucleotide encoding a polypeptide of Claim 15.
- 17. (Withdrawn) The isolated polynucleotide of Claim 16 comprising the sequence of SEQ ID NO:1,
- 18. (Withdrawn) A vector comprising the isolated polynucleotide of Claim 16.
- 19. (Withdrawn) The vector of Claim 18, wherein said vector is a defective recombinant virus.
- 20. (Withdrawn) An isolated antibody which specifically binds to a polypeptide of claim 15.
- 21. (Withdrawn) The antibody of claim 20, wherein the antibody is selected from the group consisting of: a chimeric antibody, a single chain antibody, a Fab fragment, a F(ab').sub.2 F(ab')<sub>2</sub> fragment, and a humanized antibody.
- 22. (Withdrawn) A method for producing a polypeptide of claim 15, the method comprising:
  - a) culturing a cell under conditions suitable for expression of the polypeptide,
    wherein said cell is transformed with a recombinant polynucleotide, and said

- recombinant polynucleotide comprises a promoter sequence operably linked to a polynucleotide encoding the polypeptide of claim 15, and
- b) recovering the polypeptide so expressed.
- 23. (Withdrawn) A cell transformed with a recombinant polynucleotide of Claim 16.